

DOANE LAKE AREA PROJECTS EPA AND DEQ, 1/4-LY STATUS MEETING

SEPTEMBER XX, 2009

NW NATURAL - “GASCO” SITE STATUS

Source Control

MGP DNAPL

- Segment 1¹ – Vertical barrier and hydraulic control/containment, including the water treatment system (HC&C system), in design
- DNAPL removal action alternatives for beneath former effluent ponds to be developed under separate scope and schedule

Groundwater

- Fill water-bearing zone (WBZ)
 - Control/containment as part of riverbank source control measures (SCMs)
- Alluvial water-bearing zone
 - Segment 1 - HC&C system in design as above
 - Segment 2 - HC&C system in design

Stormwater

- Catch basin sediment sampling complete except for Koppers leasehold on Gasco site. Stormwater sampling to be completed this coming fall-winter.

Erodible Soils

- Uplands – Additional information needed to confirm catch basin sediments do not discharge to the river. Site contour maps should be further developed to assess potential run-off to the river.
- Riverbank – Source control measures (SCMs) to include controlling/containing shallow groundwater combined with bank repair, removal, and replacement. To be implemented concurrently with in-water work and overseen by EPA.

Remedial Investigation/Baseline Human Health & Ecological Risk

Assessment

RI- RI report undergoing DEQ review

HH/BRA- review complete, comments to be incorporated with RI comments, DEQ will request the document be revised and resubmitted

FS- not yet initiated although meetings have been convened to discuss content. Scope of FS likely to include combinations of soil removal; DNAPL removal, containment, and stabilization technologies; and groundwater hydraulic control, containment, treatment, and discharge.

¹ Segment 1 extends approximately 600 feet south onto property owned by Siltronic Corporation.

**DOANE LAKE AREA PROJECTS
EPA AND DEQ, 1/4-LY STATUS MEETING**

SEPTEMBER XX, 2009

**NW NATURAL - SILTRONIC PROPERTY MGP RI/FS
STATUS**

RI- site characterization ongoing, last major field data collection task is surface water, sediment, and stream bank sampling along Doane Creek upstream of the North Drainage Pond. Scheduled contingent on execution of access agreement with railroad(s).

BRA- not yet initiated

FS- not yet initiated

DOANE LAKE AREA PROJECTS EPA AND DEQ, 1/4-LY STATUS MEETING

SEPTEMBER XX, 2009

SILTRONIC CORPORATION - SILTRONIC SITE STATUS

Source Control

MGP DNAPL- occurs at depths greater than 90 feet bgs near shoreline, associated dissolved phase constituents to be captured by HC&C system. Investigation of TCE DNAPL in the vicinity of the former solvent underground storage tank system (Former UST System) is ongoing.

Groundwater

- Fill water-bearing zone (WBZ)
 - Control/containment of Segment 1 portion to be part of riverbank SCMs
 - Segment 3 investigation being conducted as part of NW Natural MGP RI
- Alluvial water-bearing zone
 - Enhanced in-situ bioremediation of chlorinated VOCs (cVOCs) being using in vicinity of the Former UST System, implementation completed July 2009, performance monitoring ongoing
 - Segment 1 - HC&C system in design as above
 - Segment 3 – Source control evaluation under review by DEQ

Stormwater- conveyance system investigations (e.g., drilling and sampling, catch basin sediment and stormwater sampling) indicate stormwater is an incomplete pathway for cVOCs to the river. Current focus is on constituents other than cVOCs (e.g., PAHs, metals [copper, zinc]). Catch basin sediment sampling work complete except for office parking lot in the southern portion of the site, which discharges to City OF-22C. Catch basin and stormwater sampling to be completed fall-winter 2009-10.

Erodible Soils

- Uplands – considered an incomplete pathway for cVOCs as site is fully developed and releases resulted from the Former UST system. Investigation of MGP impacted soils ongoing as part of NW Natural's MGP RI.
- Riverbank –
 - Segment 1 - SCMs to include controlling/containing shallow groundwater combined with bank repair, removal, and replacement. To be implemented concurrently with in-water work and overseen by EPA.
 - Segment 3 - incomplete pathway for cVOCs as site is fully developed and releases resulted from the Former UST system. Investigation of MGP riverbank impacts soils ongoing as part of NW Natural's MGP RI.

**Remedial Investigation/Baseline Human Health & Ecological Risk
Assessment**

RI- cVOC RI report received, dependent on findings from NW Natural MGP RI

HH/BRA- included in cVOC RI report and dependent on findings from NW Natural
MGP RI

ES- not yet initiated